

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

1-10 (cancelled)

11. (new) A method for preparing a non-pathogenic amoeba vesicle containing a molecule of interest, which method comprises the steps consisting of:

a) culturing a non-pathogenic amoeba cell in a culture medium comprising said molecule of interest, under conditions sufficient to allow the non-pathogenic amoeba cell to release vesicles;

b) recovering a vesicle released by said cell, which vesicle contains said molecule of interest;

with the proviso that said vesicle is not a *Dictyostelium discoideum* vesicle containing Hoechst 33342.

12. (new) The method according to claim 11, wherein said non-pathogenic amoeba is *Dictyostelium discoideum*.

13. (new) An isolated non-pathogenic amoeba vesicle that contains a molecule of interest, with the proviso that said vesicle is not a *Dictyostelium discoideum* vesicle containing Hoechst 33342.

14. (new) The vesicle according to claim 13, wherein said non-pathogenic amoeba is *Dictyostelium discoideum*.

15. (new) A method for *in vitro* and/or *ex vivo* transferring a molecule of interest to an eukaryotic cell, which method comprises the step consisting of contacting an eukaryotic cell with a non-pathogenic amoeba vesicle that contains a molecule of interest, under conditions sufficient to allow the vesicle to fuse with the eukaryotic cell, whereby the molecule of interest is transferred to the eukaryotic cell.

16. (new) A method for *in vivo* transferring a molecule of interest to an eukaryotic cell, which method comprises the step consisting of contacting an eukaryotic cell with non-pathogenic amoeba vesicle that contains a molecule of interest, under conditions sufficient to allow the vesicle to fuse with the eukaryotic cell, whereby the molecule of interest is transferred to the eukaryotic cell.

17. (new) The method according to claim 15, wherein the non-pathogenic amoeba is *Dictyostelium discoideum*.

18. (new) A pharmaceutical composition comprising a non-pathogenic amoeba vesicle containing a therapeutic molecule together with a pharmaceutically acceptable carrier.

19. (new) The method according to claim 16, wherein the non-pathogenic amoeba is *Dictyostelium discoideum*.